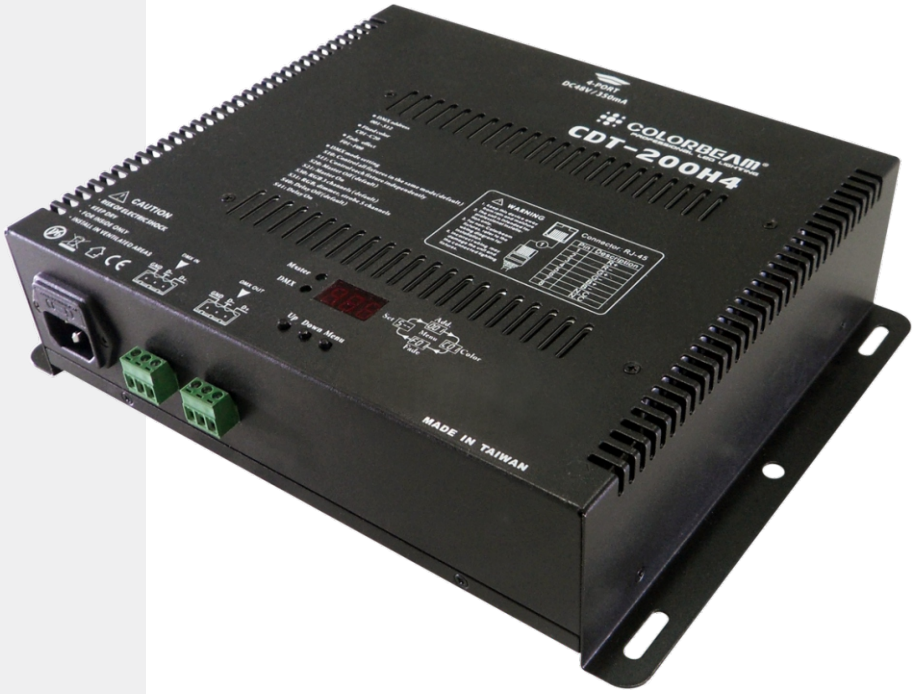
COLORBEAM®
PROFESSIONAL LED LIGHTING

User Guide



CORLORAY DMX Driver CDT-200H4
Control Systems

Version 1.0 December 2010

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ITEMS INCLUDED

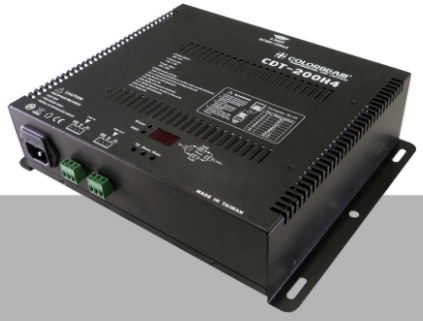
Please make sure the below items included when unpacking. If there is anything missing please contact with your local dealer immediately.

CDT-200H4 Controller

Power cord

The shape of the power cord plug varies according to country or geographic area.

INTRODUCTION



COLORAY DMX driver CDT-200H4 is a ideal power supply for Moon Spot / Linear series with highly integrated and performance driver. It is not only suitable with the entire Colorbeam lighting fixture but also can be apply with any high power lighting luminaire in the market. Impressive the 20 built -in most popular color, 9 fading effects gives this unit more benefit.

It can be set up very easily with LED display on the fixture. Utilizing the RJ45 connector which is widely use for architectural installation and can be easily integrated with any lighting systems.

Features:

1. USITT DMX 512-A address setting
2. 20 built-in fixed color
3. 9 built-in fade effect
4. 3 channel (RGB) and 5 channel (RGB, dimmer, strobe)
5. Master / Slave
6. Delay on (free-fliker function)

SPECIFICATION

Electrical

Power Voltage : 90-132VAC / 180-264VAC, 50-60Hz
(Voltage switch in the internal power of the display)
Power Consumption : 200W
Fuse : F5A / 250V (5x20mm Glass Fuse Tube)
Power Output : 4 way(RJ45)*48VDC, 340±10mA
Compatible Driver: USITT DMX512-A

Communication

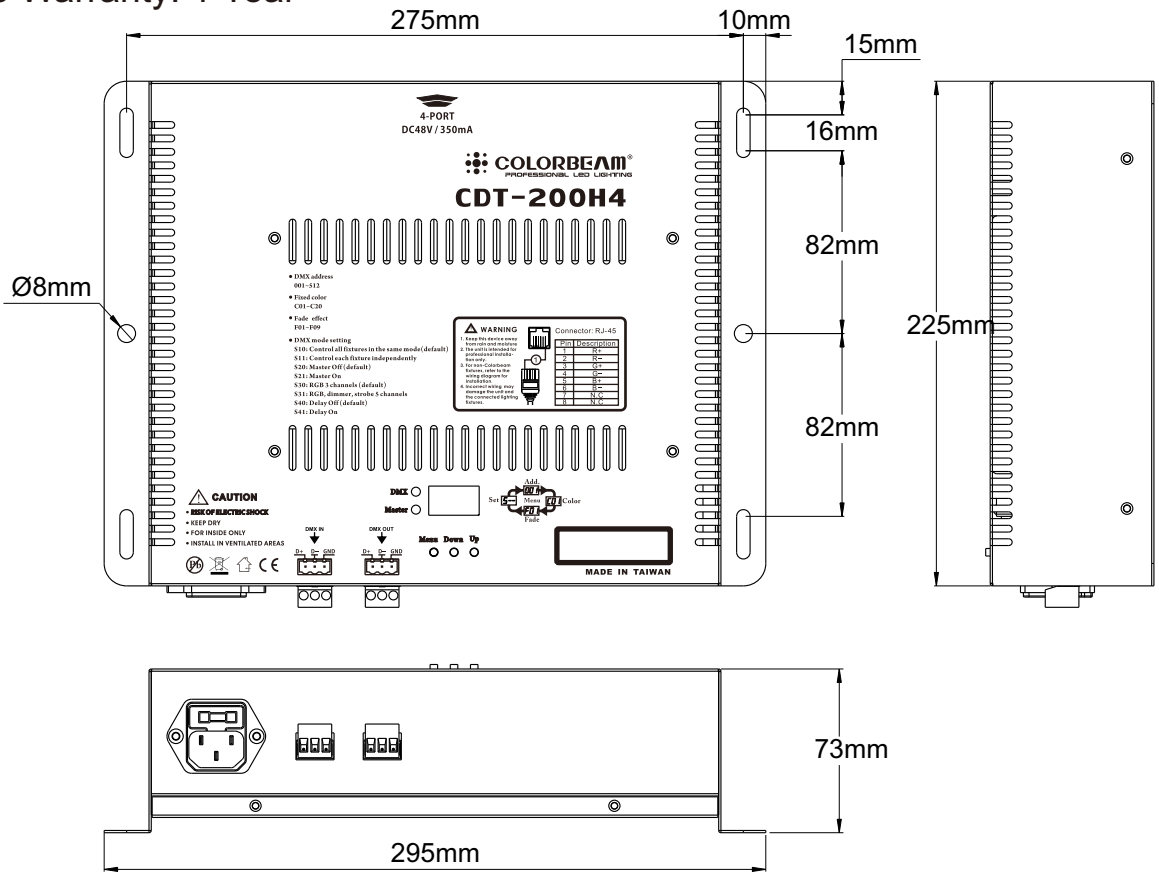
DMX Connecter: Terminal Block 3P
Output Connecter: RJ-45

Housing

Dimension(mm) : L295 × W225 × H73
Weight : 3 KG
Material: Metal
Color: Black

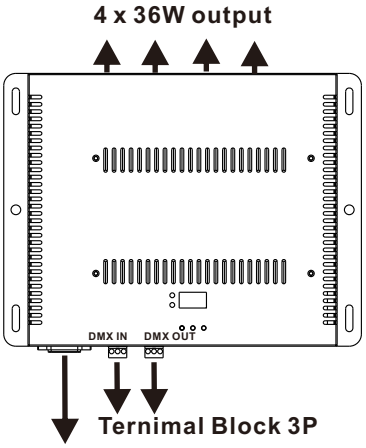
Listing

Certifications: CE / RoHS / WEEE
Fixture Warranty: 1 Year



FUNCTION SCHEMA INSTALLATION

FUNCTION SCHEMA

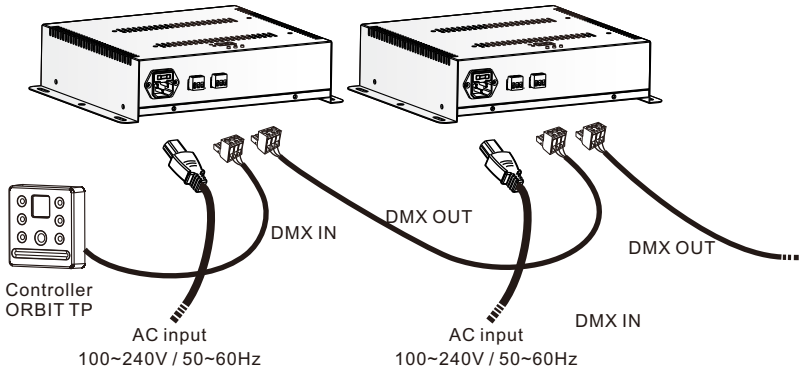


INSTALLATION

CAUTION:

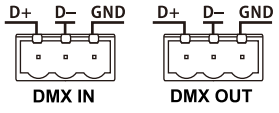
Do not hot swap. Ensure that power to the fixture is off before connecting or disconnecting fixtures.

1. Fix the fixture with bracket
2. Connect the AC power cord to the socket

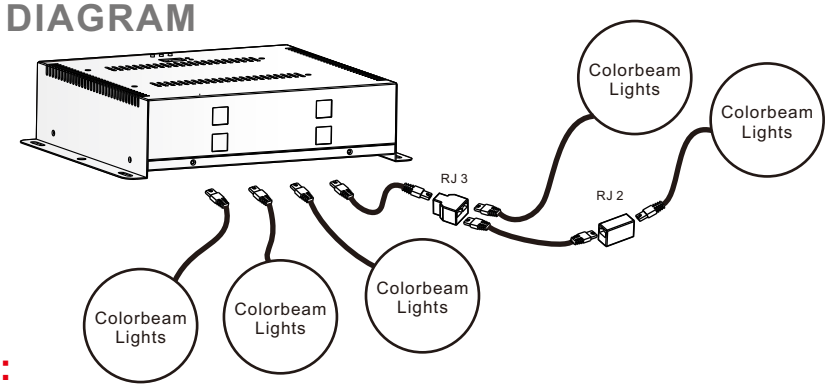


Connector Information

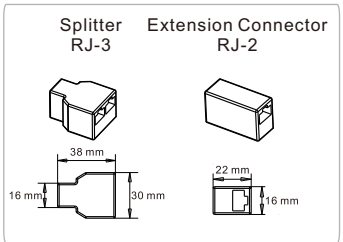
Mode No: Terminal block 3P



WIRING DIAGRAM



Wiring Configuration



NOTICE:

1. Please notice the idea of the wiring for all Colorbeam fixture is in series connection.
2. The wiring of the customized is different from the commercially available. Please refer our accessory RJ-2 and RJ-3 to do the extension and the split.
3. The warranty will be invalid when the fixture is not under normal usage (including trimming the cable and do wiring by user).
   Please contact with your sales representative for the detailed information if the trimming will be happen.

WARNING

Read the instructions carefully before you install or powering!

CAUTION!
Be careful with your operations.
You can suffer a dangerous electric shock when touch the wires inside the unit.

1. Safety Instructions

Every person involved with installation and maintenance of the this device has to :
-be qualified.
-following the instructions of manual

Please make sure that there are no obvious transport damages.

Please immediately contact the local dealers as the device is in fault operation or damage.

Damages caused by the disregard of this user manual or unauthorized modification to products are not subject to warranty.

Important

Keep this driver away from rain and moisture.
Unplug mains lead before opening the housing.
Make sure the plug is tightly connected with outlet.
Make sure all connector are connected properly.
Make sure the AC power that complies with local electrical codes.
Do not expose the device to heat source, corrosive, flammable or explosive area.
Do not block any of ventilation openings.
Do not open the device and try to repair the device personally.

2. Operation Determinations

The device must only be used indoor.

CAUTION!
For non-Colorbeam fixtures, refer to the wiring diagram for installation.

If the device has been exposed to drastic temperature fluctuation, do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

Only operate the device after having checked the housing which is firmly closed and all screws are tightly fastened. Do not shake the device. Avoid brute force when installing or operating the device.

Operate the device only after having familiarized with its functions. Do not permit operation by persons who are not qualified for operating the device. Most damages are the result of unprofessional operation!

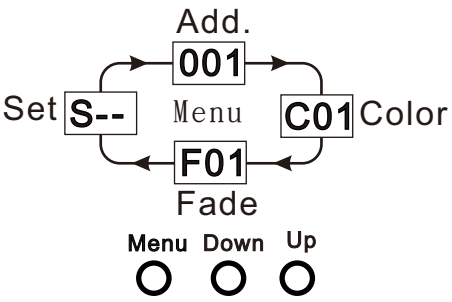
The maximum ambient temperature 40 degree must never be exceeded.
Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

OPERATION

Attention: It is important to read this manual before you install or use this product.

1. Turn on / off the power

2. Fixed Color (20 colors):
   There are 20 built-in fixed colors in the device. Press **Menu**, the display will show "**C--**" on the display. Then the user can press **Down** or **Up** to select the desired color from C01~C20.



3. Fade Effect (9 colors):
   There are 9 built-in fade programs in the device. Press **Menu**, the display will show "**F--**" on the display.
   Then the user can press **Down** or **Up** to select the desired fade program from F01~F09.
   The fade time of the effect can be changed from 01~99% (0.5~50 sec).
   e.g. F03 is running, the fade time can be changed by pressing **Menu** and **Hold** for 5 seconds. The display will show "S--" on the display.
   The fade time can be adjusted from 01 to 99% by pressing **Down** and **Up**, and confirm the adjustment by pressing **Menu**.

4. DMX Address Setting:
   Press **Menu** and the display shows the initial DMX address "**001**" . The user can select the desired address from 001~512 by pressing **Down** or **Up**.

DMX No.	Mode
S10	Control all of LED fixtures in the same channel (default)
S11	Control all of LED fixtures independently
S20	Master off (default)
S21	Master on
S30	RGB 3 channels (default)
S31	RGB dimming, strobe 5 channels
S40	Delay off (default)
S41	Delay on

Note:
The function of delay on is designed for running slow, and free-fliker program.
The response speed of LEDs is slower than normal. All drivers must be set on the same mode (delay on or off) as connecting together, otherwise, the program does not run synchronously.
The slave drivers must be set add. 001 when running Master / Slave function.

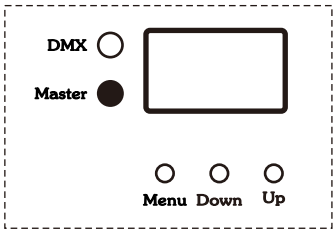
OPERATION

5. DMX Mode Setting:

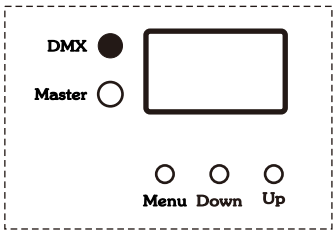
The following mode can be selected by pressing **Menu** to confirm it. Press **Menu** first and the display shows "**S--**". And press **Down** or **Up** to select the desired program from S10~S41.

6. Signal Indicator:

(1) Receive Master Signal: The green light shows when the lighting fixture has been set as **Master**.



(2) Receive DMX Signal: The green light shows when the lighting fixture is receiving DMX Signal.



7. Sleeping Mode:

The control unit will go into **Sleeping Mode** automatically in the event of no instruction from the keypad after 30 sec. Under Sleeping Mode, the control unit is functional but the display is off and the keypad is locked. To leave the Sleeping Mode, the user can press **Menu** and hold for 5 sec. till the display is on. When using the DMX Address to control the lighting fixture, the Sleeping Mode will start after 30 sec. Press **Menu** and hold for 5 sec. to leave the Sleeping Mode.

ORDER INFORMATION FORM

POWER			
ITEM		Spec.	PART NUMBER
CDT-200H4		4 Output / 3 Colors	GORC0621
ORBIT TP		CONTROLLER	GOBC0111
ACCESSORY			
ITEM		Spec.	PART NUMBER
Extended line RJ-45 two-way		2M	D03-458002-002
		5M	D03-458005-001
		10M	D03-458010-001
Splitter		RJ-3	B060301004
Extension Connector		RJ-2	B060301005

APPENDIX

PARAMETER OF RGB

DMX No.	R	G	B
C01	100	0	0
C02	100	0	100
C03	100	0	50
C04	50	0	100
C05	100	0	20
C06	100	15	100
C07	100	15	50
C08	50	15	100
C09	0	0	100
C10	0	40	100
C11	0	15	100
C12	0	100	60
C13	0	100	30
C14	100	100	30
C15	0	60	100
C16	0	100	0
C17	100	80	0
C18	50	100	0
C19	100	15	0
C20	100	100	100

COLORBEAM CO. LTD.
314, 3F., No. 87, Minguang E. Rd.,
Taoyuan City, Taiwan 33052
TEL : +886 3 335 7716
FAX : +886 3 331 3386
E-MAIL : sales@colorbeam.com
W : www.colorbeam.com